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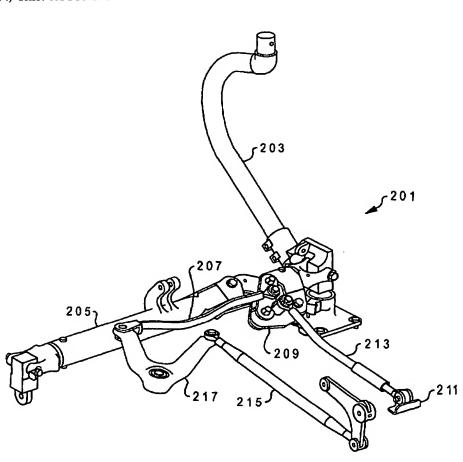
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(54) Title: ROTORCRAFT CONTROL SYSTEM WITH STEPPED MIXING LINKAGE



(57) Abstract: A control system for a rotorcraft is disclosed. The control system includes a stepped mixing linkage (53), such that a selected amount of right-left lateral cyclic output is generated for certain amounts of forward-aft cyclic input. The stepped mixing linkage (53) includes two supporting links and a floating link (73) pivotally coupled between the two supporting links. The ratio of the lengths of the two supporting links to the length of the floating link (73) is small, thereby generating a selected lateral sinusoidal output, a selected rotation of the sinusoidal output, and a selected ramped output in response to each forward-aft pilot input command.



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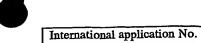
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